

#359

MARINER 10

HR. AVG. INTERPLANETARY MAG FIELD VECTORS

73-085A-04C

MARINER 10

HR AVG INPL MAG VECTORS ON TAPE

73-085A-04C

This data set has been restored. There was originally one 9-track, 1600 BPI tape written in EBCDIC. There is one restored tape written in ASCII. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tape was created on a MODCOMP computer and the restored tape was created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D number are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR005321	DS005321	D025191	1	11/03/73 - 09/18/74

REQ. AGENT

REQ. NO.

ACQ. AGENT

CMP  
PAR

RC6807

JHK

MARINER 10

HOURLY AVERAGED INTERPLANETARY MAGNETIC FIELD VECTORS

73-085A-04C

THIS DATA SET CATALOG CONSISTS OF ONE 9 TRACK, 1600 BPI, EBCDIC, TAPE  
CREATED FROM CARD IMAGES ON THE MODCOMP IV COMPUTER. THE RECORDS ARE BLOCKED  
WITH 80 CARD IMAGES PER BLOCK. THE TIME SPAN FOR THE DATA WITH THE D AND  
C NUMBERS ARE AS FOLLOWS:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-25191	C-18426	11/3/73-9/18/74

Mariner 10 Magnetic Field  
Hourly Average Card Format

<u>Item</u>	<u>Cols.</u>	<u>Format</u>	<u>Quantity Name</u>
1.	1-2	A2	Coordinate system SQ=SEQ  (See GSFC document  X-692-76-208 for definition  of SEQ system)
2.	3-7	I5	R-Heliocentric radial  distance in AU
3.	8-12	I5	X S/C position (SEQ) in AU
4.	13-17	I5	Y S/C position (SEQ) in AU
5.	18-22	I5	Z S/C position (SEQ) in AU

Note: Items 2-5 have been multiplied by 10,000.

6.	23-24	I2	Year (73, 74, or 75)
7.	25-27	I3	Decimal day of the year  (Jan. 1 = day 0).
8.	28-29	I2	Hour (0-23)
9.	30-34	F5.1	F1=Field Magnitude N $F1 = \sum_{i=1}^N F_i/N$
10.	35-39	F5.1	$\theta$ =SEQ elevation angle of  field vector ( <u>+90</u> <sup>o</sup> )

11.	40-44	F5.1	$\phi$ -SEQ azimuth angle of field vector (0-360°)
12.	45-49	I5	N=Count of 42-sec averages included in the hourly average.
13.	50-54	F5.2	$\sigma_c$ =Pythagorean mean field component rms deviation $\sigma_c = (\sigma_x^2 + \sigma_y^2 + \sigma_z^2)^{\frac{1}{2}}$
14.	55-59	F5.1	$\sigma_F$ =rms deviation of 42 sec F1 values over the hour.
15.	60-64	F5.1	X component rms (SEQ)
16.	65-69	F5.1	Y component rms (SEQ)
17.	70-74	F5.1	Z component rms (SEQ)
18.	75-79	F5.1	$F2 = (\langle BX \rangle^2 + \langle BY \rangle^2 + \langle BZ \rangle^2)^{\frac{1}{2}}$
19.	80	A1	S/C ID = M for Mariner 10

TAPE NO. 1 FILE NO. 1  
RECORD 1 LENGTH 6400

SQ 9918-5850-7977 7.97330616 4 11.9 62.5195.0 84 4.92 2.9 2.9 2.4 3.2 1.0 8MSQ 9918-5926-7921  
7.87330615 6.3 56.3108.9 26 3.41 2.3 1.5 2.8 5.7MSQ 9918-6003-7863 7.087330616 5.8 43.  
4 96.5 86 1.42 1.1 0.6 3.2 4.2MSQ 9918-6155-7745 7.187330618 4.2 33.3356.6 85 1.81 1.7 1.5 0.4 0.9  
-2 1.1 1.0 1.1 4.2MSQ 9918-6229-7685 7.77330619 4.3 70.3 83.2 86 2.41 1.7 1.6 1.6 3.9MSQ 9918-6303-76  
4.2MSQ 9918-6229-7685 7.77330619 4.3 70.3 83.2 86 2.41 1.7 1.6 1.6 3.9MSQ 9918-6303-76  
25 7.07330620 5.9 38.0 21.3 83 1.78 0.9 0.9 1.1 1.1 5.3MSQ 9918-6377-7563 7.077330621 6.7  
37.8359.7 85 2.69 0.8 0.5 1.8 1.0 6.3MSQ 9918-6450-7501 7.07330622 6.4 -1.6388.4 86 2.5  
2 0.5 1.0 0.8 2.1 5.9MSQ 9918-6522-7438 7.067330623 7.0-29.7321.0 86 1.33 0.4 0.7 0.8 0  
-8 6.9MSQ 9918-6594-7375 7.0673307 0 7.5 -6.7322.4 86 3.17 0.5 1.2 1.4 2.6 6.7MSQ 9918-6666  
5-7311 7.0673307 1 7.3 5.7344.3 85 3.37 1.7 1.7 1.7 2.3 6.7MSQ 9918-6755-7246 7.0673307 2  
8-2 -3.6331.1 86 1.13 0.4 0.6 0.6 8.1MSQ 9918-6807-7178 7.0573307 3 8.0 5.5327.6 72  
2-39 1.2 1.1 1.2 1.7 7.7MSQ 9918-6875-7114 7.0573307 4 7.8 17.2315.3 85 2.93 1.2 1.3 1  
6-2.1 7.3MSQ 9918-6943-7047 7.0573307 5 8.8 21.8228.0 85 2.55 0.5 1.2 1.3 1.8 6.5MSQ 9918  
-7909-6981 7.0473307 6 8.8 -3.9301.5 71 1.39 0.2 0.5 0.5 1.2 8.7MSQ 9918-7179-6911 7.047330  
7 7 8.8-18.0314.0 85 0.93 0.2 0.6 0.4 9.6 8.7MSQ 9918-7145-6843 7.0473307 8 8.7-24.5329.8  
85 1.20 0.2 0.6 0.9 0.5 8.6MSQ 9918-7211-6773 7.0473307 9 8.5-28.0323.8 86 1.07 0.2 0.7  
2.7 0.4 8.4MSQ 9918-7277-6733 7.037330710 8.6-28.5307.8 86 2.76 3.3 1.8 2.0 0.7 8.1MSQ  
9918-7341-6632 7.037330711 8.3 17.7313.1 85 7.03 1.1 1.6 4.9 4.8 4.5MSQ 9918-7405-6561 7.03  
7330712 7.4-26.1 67.5 86 4.02 0.7 0.9 1.3 3.7 6.2MSQ 9918-7468-6489 7.027330713 10.1 32.4 5  
0.8 8.6 3.11 0.4 0.8 2.1 2.2 9.6MSQ 9918-7531-6416 7.027330714 10.6 57.4 20.7 86 1.98 0.3  
0.7 1.8 0.6 1.4MSQ 9919-7592-6343 7.027330715 9.7 44.1 7.2 85 2.31 0.5 1.2 1.3 1.4 9.4  
MSQ 9919-7653-6277 7.027330716 8.2 6.8 28.8 85 4.84 0.9 1.4 1.3 4.4 6.6MSQ 9919-7714-6195  
7.017330717 7.1-55.5340.5 86 1.85 0.6 1.1 1.3 0.8 6.8MSQ 9919-7774-6120 7.017330718 7.8-46  
2 16.5 86 4.16 0.9 1.2 3.0 2.6 6.8MSQ 9919-7833-6044 7.017330719 7.5-26.7 46.6 85 1.96  
1.4 1.3 1.0 1.1 7.2MSQ 9919-7891-5968 7.017330720 7.3-53.9 39.9 85 4.21 1.0 0.9 4.3 1.0  
6.1MSQ 9919-7948-5891 7.017330721 8.4 38.2 75.5 84 5.21 0.8 0.9 3.2 4.0 6.6MSQ 9919-8005-5  
814 7.017330722 8.9 53.4 81.6 85 1.81 0.6 0.9 0.9 1.3 8.7MSQ 9919-8061-5737 6.997330723 7.  
7 55.2 89.9 86 3.91 1.3 1.3 3.4 1.6 6.7MSQ 9919-8116-5658 6.977330724 7.4 40.1 16.2 86 5.  
74 1.0 3.3 4.3 1.9 4.7MSQ 9919-8179-5579 6.997330725 6.7-12.9315.9 86 3.99 1.3 2.5 2.2  
2-2 5.5MSQ 9919-8223-5501 6.997330726 2 11.8 -1.5284.9 81 1.97 0.6 0.7 1.7 11.6MSQ 9919-82  
77-5420 6.987330727 3 10.7 5.9301.1 86 4.33 0.8 1.9 2.4 3.0 9.7MSQ 9918-8329-5340 6.987330728 4  
12-1 15.3301.0 86 2.35 0.5 1.3 1.1 1.6 11.8MSQ 9918-8380-5259 6.987330729 5 11.3 17.8303.0 8  
5 3.78 0.9 1.6 1.3 3.2 11.6MSQ 9918-8432-5175 6.977330730 6 10.8 -4.9301.4 78 5.93 1.4 4.1 2  
4 3.6 9.0MSQ 9918-8480-5096 6.977330731 7 9.9-69.6249.2 86 7.60 0.9 5.4 3.7 6.3MSQ 991  
8-8530-5013 6.977330732 8 11.2 -2.1310.7 86 5.39 0.5 2.1 1.4 4.8 9.9MSQ 9918-8578-4931 6.96733  
08 9 10-1 -8.5305.9 85 4.61 0.4 1.9 1.1 4.0 9.0MSQ 9918-8625-4847 6.967330733 12.9-17.6309.8  
8612-19 1.6 3.4 9.2 7.3 4.1MSQ 9918-8671-4764 6.967330734 12.4 55.2 75.1 86 8.66 1.1 4.  
5 6.2 4.0 8.7MSQ 9918-8717-4680 6.967330735 13.7 42.2 35.1 85 2.15 1.1 0.7 1.4 1.5 13.6MSQ  
9918-8762-4599 6.957330736 13.9 21.8333.8 85 4.19 0.6 1.0 3.7 1.7 10.1MSQ 9918-8806-4509 69  
57330737 9.4 35.2328.2 7.0 7.57 1.3 4.4 4.1 4.6 5.6MSQ 9918-8849-4424 6.957330738 8.5 22.33  
38.2 86 3.69 1.1 1.1 1.9 3.0 7.7MSQ 9918-8892-4339 6.947330739 8.5 34.6347.5 85 6.88 1.1  
3.8 3.8 4.3 5.1MSQ 9918-8933-4252 6.947330740 8.9 32.6 9.5 86 4.06 2.1 3.0 2.4 1.4 8.  
1MSQ 9918-8974-4166 6.947330741 8.5 2.73 0.4 1.0 1.6 2.0 5.7MSQ 9918-9053-3992 6.937330742 5.4  
6.937330742 6.3 17.3332.4 85 2.4 4.9 7.4 85 5.28 1.3 2.6 4.0 2.3 2.6MSQ 9918-9114-4079  
2.9348.3 86 3.60 0.9 0.9 2.5 2.4 4.1MSQ 9918-9091-3903 6.937330743 5.3 -9.3351.8 86 2.79  
0.5 1.0 1.8 1.9 4.4MSQ 9918-9129-3615 6.927330744 5.3 3.4337.6 86 3.36 0.5 2.3 1.2 2.1  
4.1MSQ 9918-9165-3726 6.927330745 4.7 -2.1352.9 85 0.94 0.1 0.2 0.9 0.3 4.6MSQ 9918-9201-  
3638 6.927330746 4.8 9.2 8.6 0.39 0.1 0.1 0.3 0.3 4.8MSQ 9918-9236-3548 6.927330747 1 4  
-8 -5.6355.1 86 0.67 0.3 0.3 0.5 0.3 4.8MSQ 9918-9269-3459 6.917330748 2 5.3 -6.4355.2 85 1  
-13 0.1 0.2 1.0 0.3 5.2MSQ 9918-9302-3369 6.917330749 3 5.4 -1.5339.1 86 1.18 0.2 0.2 0.3  
1.1 5.3MSQ 9918-9335-3279 6.917330750 4 5.5 5.4336.1 86 1.20 0.2 0.3 0.7 0.9 5.3MSQ 9918-9  
366-3188 6.917330751 5 5.2 0.1327.7 86 2.30 0.5 1.1 1.5 1.3 4.7MSQ 9918-9396-3097 6.9073309  
6 5.3-24.3316.9 85 2.65 0.9 1.1 1.1 2.1 4.7MSQ 9918-9424-3012 6.907330752 7 5.5 39.7335.4  
7 1.89 0.9 0.6 1.2 1.4 5.3MSQ 9918-9455-2914 6.897330753 8 6.0 33.4342.3 84 2.29 0.3 0.6  
1.6 1.5 5.5MSQ 9918-9482-2823 6.897330754 9 5.7-15.0319.1 85 1.68 0.2 0.9 0.9 1.1 5.4MSQ 99  
18-9509-2732 6.897330755 5.6-26.7316.1 86 2.01 0.3 0.8 1.3 1.4 5.2MSQ 9918-9535-2639 6.8873  
3.0911 5.4 -7.7309.4 86 1.71 0.2 0.8 0.9 1.2 5.1MSQ 9918-9560-2546 6.887330756 5.6 -5.5331.1  
5 86 1.53 0.3 0.7 0.6 1.2 5.4MSQ 9917-9584-2454 6.887330757 5.7 12.2332.3 85 1.70 0.7 1  
-1 0.6 1.1 5.5MSQ 9917-9607-2361 6.887330758 4.4-18.8300.4 86 2.27 0.3 1.2 0.9 1.7 3.7MS  
4 9.917-9630-2268 6.877330759 5.0-17.2321.8 86 2.34 0.4 1.0 0.9 1.9 4.4MSQ 9917-9651-2175 6  
877330760 5.9 6.9330.2 85 1.47 0.3 0.7 1.0 0.9 5.7MSQ 9917-9672-2081 6.877330761 5.6-41.4

296.9 86 4.1 2.6 2.5 2.0 2.4 3.9MSQ 9917-9692-1928 6867330918 5.4-27.1294.7 86 3.90 0.  
 5 2.0 1.9 2.7 3.6MSQ 9917-9710-1893 6867330919 5.9 34.7327.4 86 2.04 0.5 0.8 0.6 1.8 5  
 .5MSQ 9917-9728-1799 6867330921 5.5 3.5539.7 85 1.32 0.3 0.4 1.0 0.9 5.4MSQ 9917-9745-173  
 6 6857330921 6.2-13.1319.6 85 2.53 0.2 1.3 1.2 1.8 5.6M

TAPE NO. 1 FILE NO. 1  
 RECORD 65 LENGTH 144C  
 54 4761-1855-4371 -3447426016.26.2-11.3328.1 8610.70 1.0 3.4 4.9 8.9 24.1MSQ 4759-1889-4354 -  
 34774260 7 25.1 4.8336.6 8313.26 0.6 6.7 7.6 8.5 20.8MSQ 4758-1923-4338 -34674260 8 24.1 1.  
 8337.4 8416.87 1.0 5.2 11.7 10.9 16.5MSQ 4756-1956-4321 -34574260 9 24.4 5.3342.0 8515.22 1  
 9.8MSQ 4753-2823-4287 -3437426011 25.4 -1.5337.1 8110.42 0.8 3.1 3.6 9.3 23.2MSQ 4752-2056-42  
 70 -3427426012 25.6 1.2342.5 77 8.18 0.5 2.7 5.4 5.5 24.4MSQ 4750-2090-4252 -3407426013 24.7  
 -2.5326.4 7711.90 0.9 5.5 5.5 9.0 21.4MSQ 4749-2123-4234 -3397426014 24.2 -6.4322.4 8311-2  
 19.6MSQ 4746-2188-4198 -3377426016 24.5 -5.6340.1 8311.77 0.9 3.6 6.8 8.9 21.7MSQ 4745-222  
 1-4179 -3367426017 25.3 30.6331.2 7614.79 0.9 11.5 6.2 7.0 19.4MSQ 4743-2253-4160 -3357426018  
 26.4 1.5336.7 83 8.15 0.9 3.0 6.1 4.5 25.5MSQ 4742-2287-4140 -3337426019 26.4 4.6349.5 69  
 8.35 0.9 1.8 5.1 6.3 25.4MSQ 4741-2317-4122 -3327426020 27.2 13.1359.8 8311.96 0.7 3.1 7.  
 8 8.5 24.4MSQ 4739-2349-4102 -3317426021 26.1 10.3350.3 84 7.08 0.6 1.8 5.2 4.4 25.2MSQ 4738  
 -2381-4083 -3307426022 25.4 4.8341.1 85 6.64 0.6 2.3 3.6 5.1 24.8MSQ 4736-2413-4062 -3297426  
 23 26.5 9.9335.9 6910.22 0.9 4.1 5.3 7.7 24.2M

\*\*\*\*\* JOB DONE.  
 \$WEO LPS